Data Acquisition: Primer 6/23/09 S. Pordes & T. Tope:

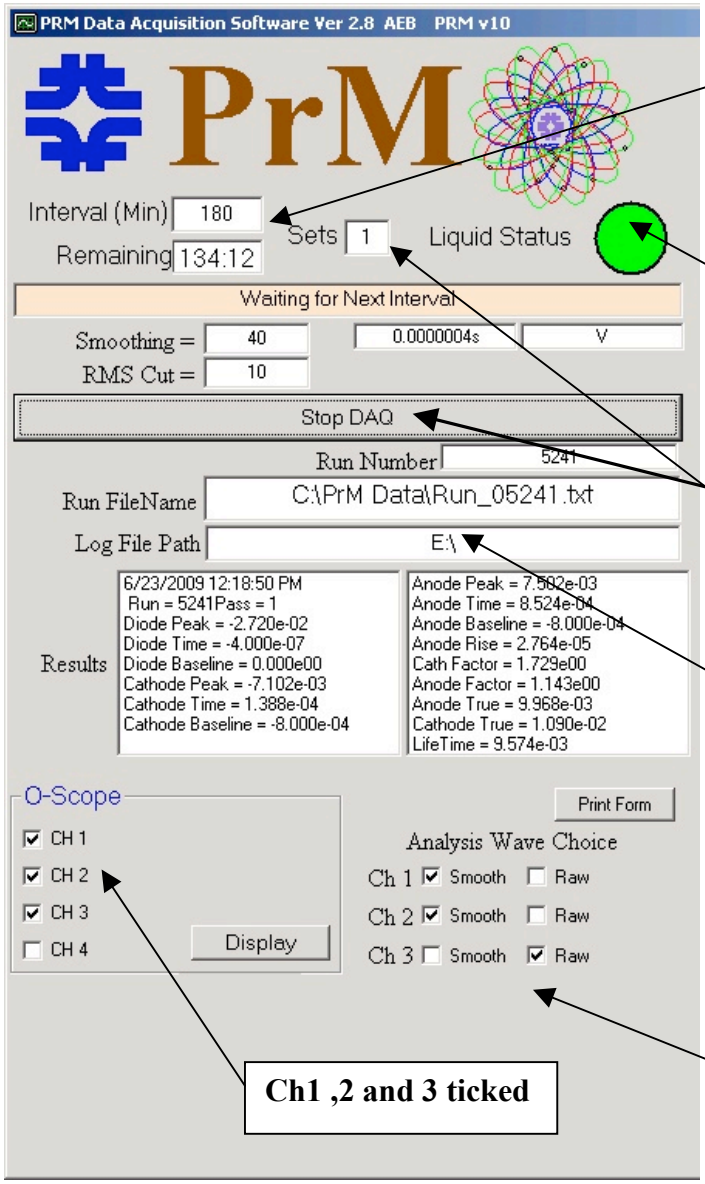
Scope:. Ch1, 2 and 3 on; Ch1 & 2 at 1 MOhm, ch3 at 50 Ohm and inverted (down arrow). On Menu bar: Display: Horiz/Acq -> Acquisition Mode -> Avg, 200 microsec, 2.5MS/s 400 ns/pt, Ch1 and 2 to see signals (2 mV minimum), Photodiode in Ch3 inverted

Nim `HV Relay Module' set to Remote Control (set to Local to check voltages)

Walter's Box on top: set to Auto. and RUN. The box turns the power to the flash-lamp on and off in response to a signal from the DAQ program. The power goes off after 100 seconds to prevent damage to the light-fiber in case something happens to the computer or the program. The timing-fault light goes on . Push Reset to resume operation. **If the computer is off, the flasher may run. Set the lower switch on the box to OFF.**

The data acquisition program is called PRMv10 –shortcut on the desktop. The user sets the interval between sets and how many readings per set. Once the Liquid Status disk is green and the parameters in the boxes below are set, press the Start DAQ button to start

To take a reading –right now -, press Stop DAQ and then Start DAQ.



Minutes between readings To change, highlight and type new value. The lesser of the time to the next reading and the new interval will show – be patient

Interlock:If the disk is red, double-click on Liquid Status to run.

Click to Start and Stop DAQ

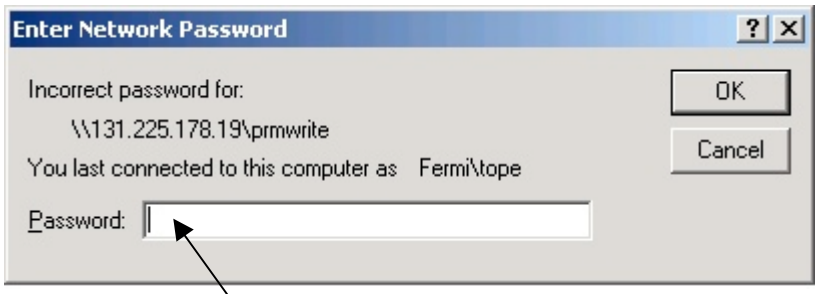
How many data sets are taken each reading (usually set to 1)

Log File Path points to the mapped drive on the iFix PC – see the following pages for details

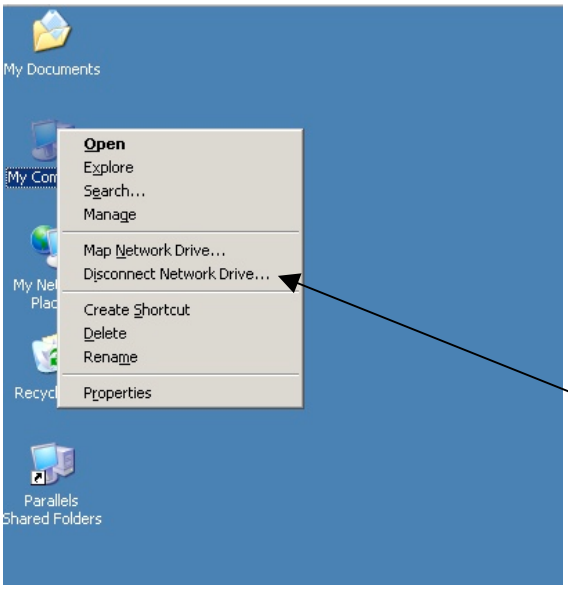
Ch1 ,2 and 3 ticked

Ch1 & 2 Smooth, Ch3 Raw (takes 2 clicks to set)

When the Tektronix scope PC is rebooted, it will try to connect to the iFIX PC by mapping a link to the iFIX PC hard drive. The scope PC writes the purity monitor data to the iFIX PC in the form of a .CSV file so that the purity monitor data can be included in the web server historical plots.

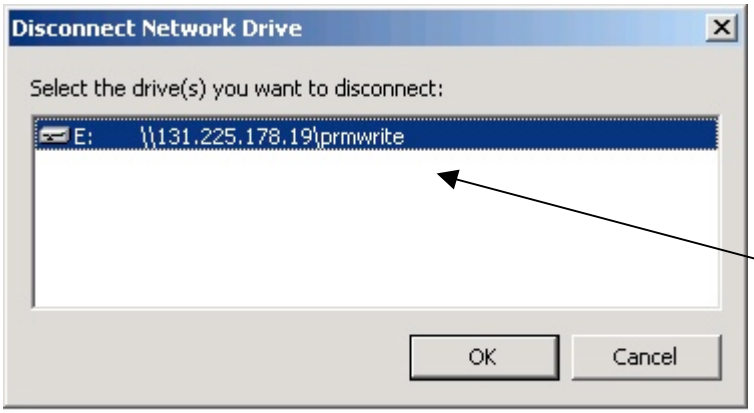


Upon reboot it will ask for the password of the last Fermi domain user to map the drive. If that user is available they should enter their password. Otherwise, click cancel.

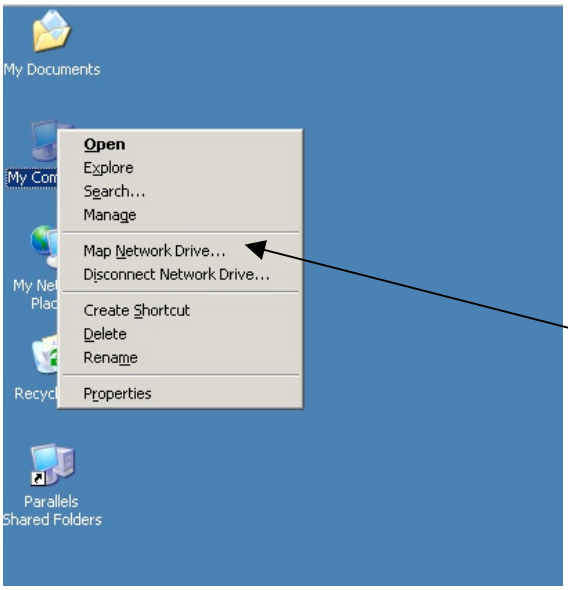


If the previously logged in user is not present, the drive must be disconnected and re-mapped.

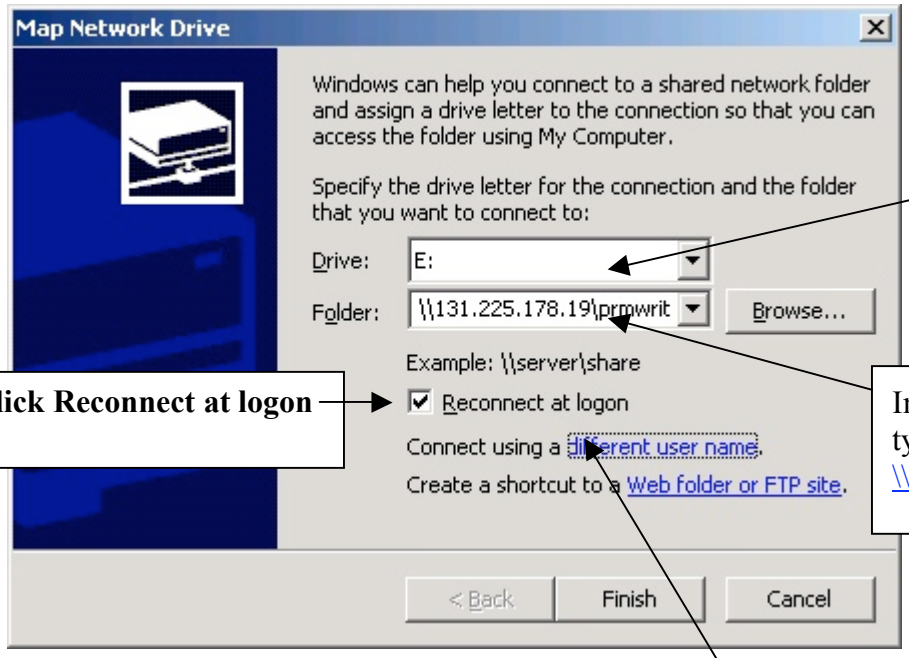
Right click my computer and select Disconnect Network Drive…



Select this drive and click OK.



Right click my computer and select Map Network Drive…

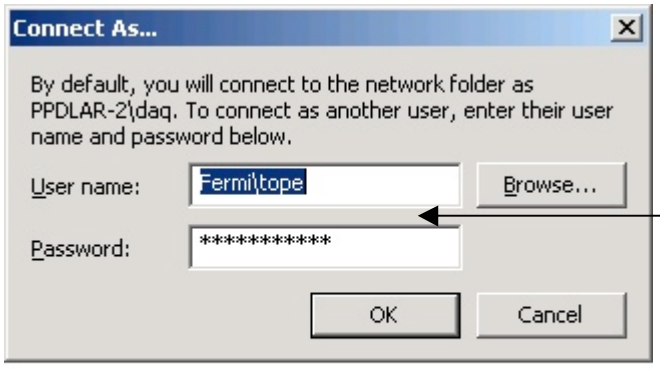


Select E:

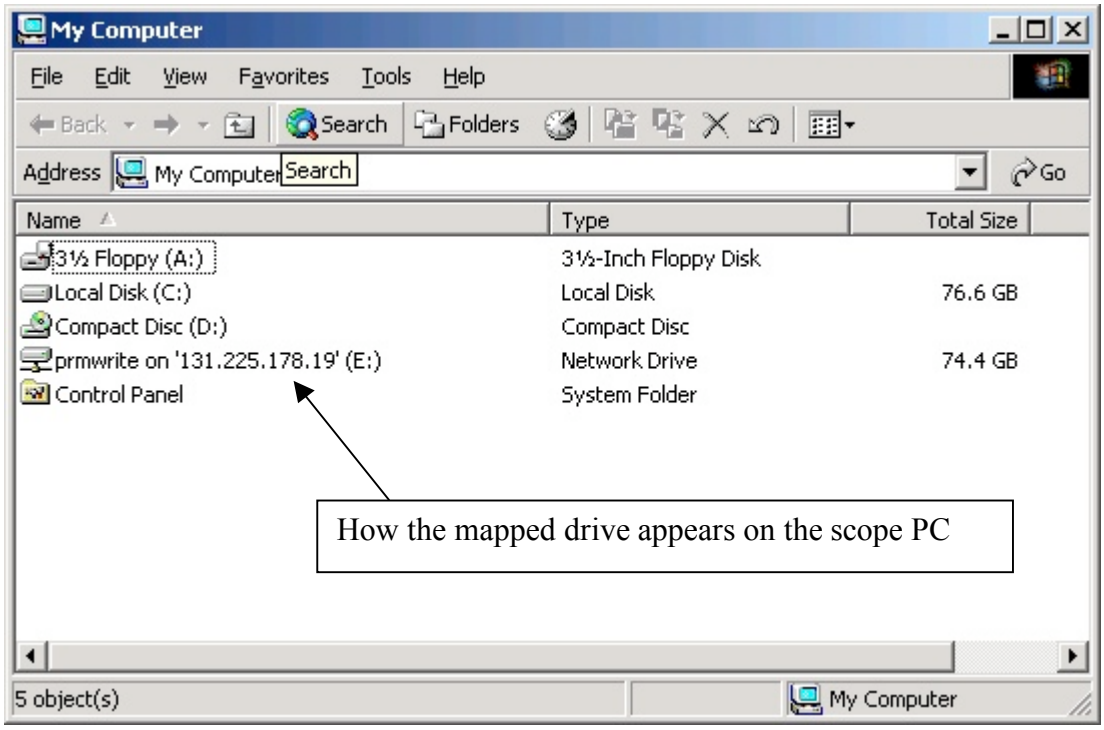
Click Reconnect at logon

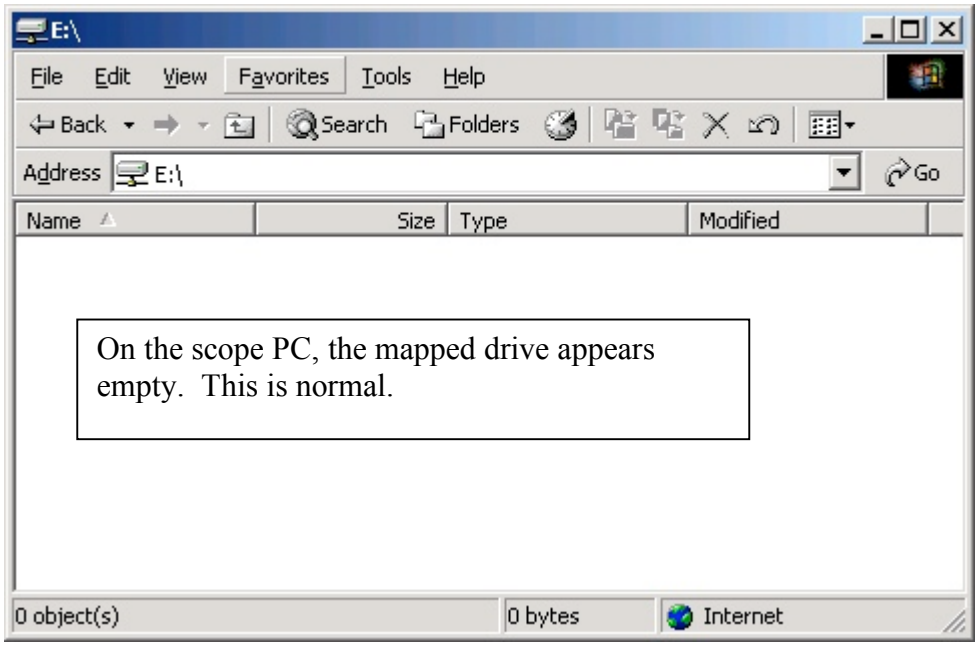
In the Folder data entry box type \\131.225.178.19\prmwrite

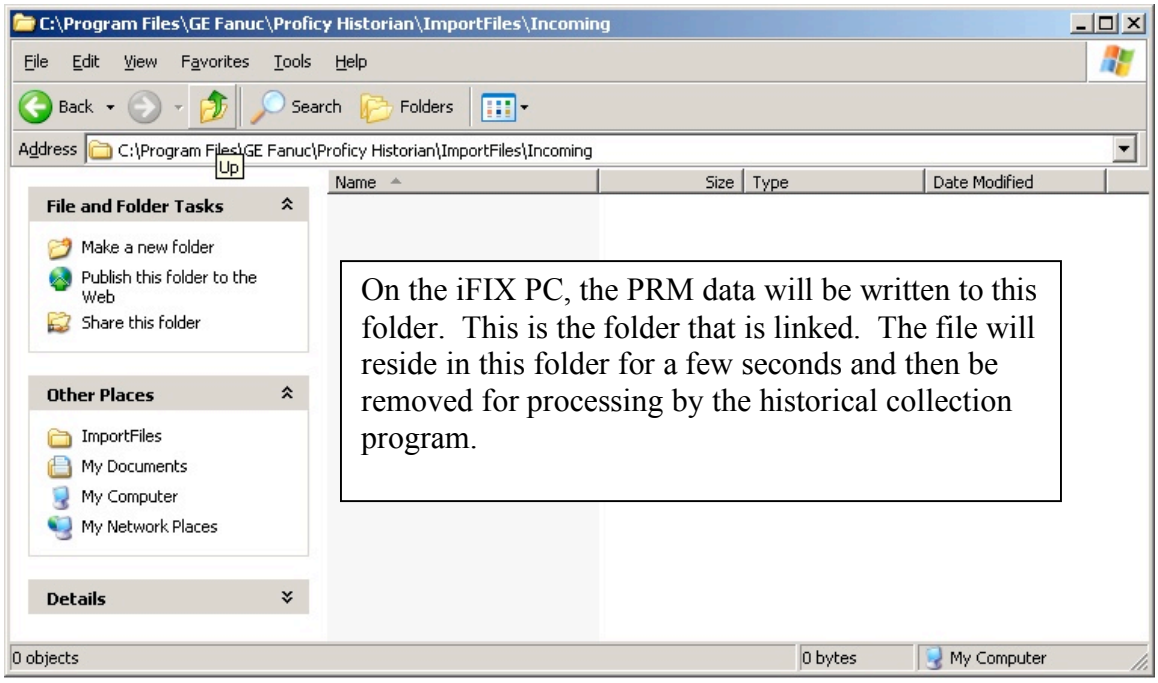
Click Connect using a different user name

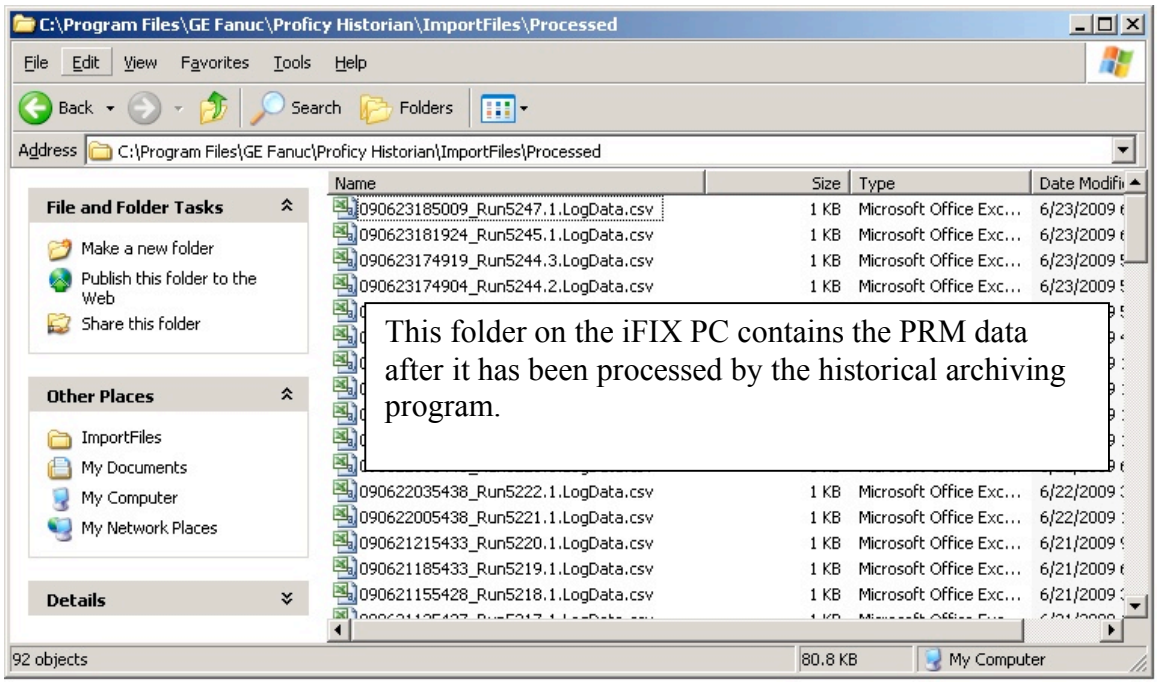


Enter the User name as Fermi\xxxx where xxxx is your Fermi windows domain user name and enter the corresponding password.


My Computer
File Edit View Favorites Tools Help
Back Search Folders
Address My Computer Search
Go
Name Type Total Size
3½ Floppy (A:) 3½-Inch Floppy Disk
Local Disk (C:) Local Disk 76.6 GB
Compact Disc (D:) Compact Disc
prmwrite on '131.225.178.19' (E:) Network Drive 74.4 GB
Control Panel System Folder
How the mapped drive appears on the scope PC
5 object(s)
My Computer


E:\
File Edit View Favorites Tools Help
Back Search Folders
Address E:\
Go
Name Size Type Modified
On the scope PC, the mapped drive appears empty. This is normal.
0 object(s)
0 bytes
Internet


C:\Program Files\GE Fanuc\Proficy Historian\ImportFiles\Incoming
File Edit View Favorites Tools Help
Back Search Folders
Address C:\Program Files\GE Fanuc\Proficy Historian\ImportFiles\Incoming
Up
Name Size Type Date Modified
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Share this folder
Other Places
ImportFiles
My Documents
My Computer
My Network Places
Details
On the iFIX PC, the PRM data will be written to this folder. This is the folder that is linked. The file will reside in this folder for a few seconds and then be removed for processing by the historical collection program.
0 objects
0 bytes
My Computer


C:\Program Files\GE Fanuc\Proficy Historian\ImportFiles\Processed
File Edit View Favorites Tools Help
Back Search Folders
Address C:\Program Files\GE Fanuc\Proficy Historian\ImportFiles\Processed
Name Size Type Date Modifi
090623185009_Run5247.1.LogData.csv 1 KB Microsoft Office Exc... 6/23/2009
090623181924_Run5245.1.LogData.csv 1 KB Microsoft Office Exc... 6/23/2009
090623174919_Run5244.3.LogData.csv 1 KB Microsoft Office Exc... 6/23/2009
090623174904_Run5244.2.LogData.csv 1 KB Microsoft Office Exc... 6/23/2009
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Share this folder
Other Places
ImportFiles
My Documents
My Computer
My Network Places
Details
This folder on the iFIX PC contains the PRM data after it has been processed by the historical archiving program.
090622035438_Run5222.1.LogData.csv 1 KB Microsoft Office Exc... 6/22/2009
090622005438_Run5221.1.LogData.csv 1 KB Microsoft Office Exc... 6/22/2009
090621215433_Run5220.1.LogData.csv 1 KB Microsoft Office Exc... 6/21/2009
090621185433_Run5219.1.LogData.csv 1 KB Microsoft Office Exc... 6/21/2009
090621155428_Run5218.1.LogData.csv 1 KB Microsoft Office Exc... 6/21/2009
92 objects
80.8 KB
My Computer